

**SPACE-BASED INTEGRATED MULTI-MISSION
BROADBAND ARCHITECTURE**

ABSTRACT OF THE DISCLOSURE

Spacecraft network and communication method thereof. A spacecraft network includes a first server spacecraft disposed in a first server orbit, a first client spacecraft disposed in a first client orbit, and a wireless local area network formed between at least the first server spacecraft and the first client spacecraft. The wireless local area network includes at least one communication channel to transmit and receive spatial information, at least one receiver to receive a first communication signal including at least routing information, at least one routing system to determine a desired route, and one transmitter to transmit the first communication signal. The first client spacecraft is free from the at least one routing system, and the first server spacecraft includes one of the at least one routing system.

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